CRF Errors Corrected by the STIC Systems Branch

Serial Number: 09/963,766 ENTERED

CRF Processing Date: 2/17/2022
Edited by: _____
Verified by: _____ (STIC staff)

☐ Changed a file from non-ASCII to ASCII

☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.

☐ Edited a format error in the Current Application Data section, specifically:

_____

☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____.

☐ Added the mandatory heading and subheadings for "Current Application Data".

☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.

☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically:

_____

☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:

_____

☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

_____

☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

☐ Inserted colons after headings/subheadings. Headings edited included:

_____

☐ Deleted extra, invalid, headings used by an applicant, specifically:

_____

☑ Deleted: ☑ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as _____.

☐ Inserted mandatory headings, specifically: _____

☐ Corrected an obvious error in the response, specifically:

_____

☐ Edited identifiers where upper case is used but lower case is required, or vice versa.

☐ Corrected an error in the Number of Sequences field, specifically:

_____

☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____

☐ Other:

_____

_____

_____

_____

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

OIPE

RAW SEQUENCE LISTING DATE: 02/17/2002
PATENT APPLICATION: US/09/963,766 TIME: 16:10:19

Input Set : A:\PTO.AMC.TXT
Output Set: N:\CRF3\02172002\I963766.raw

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 4 <110> APPLICANT: Nakamura, Takao
 5       Ohta, Masataka
 7 <120> TITLE OF INVENTION: NOVEL GUANOSINE TRIPHOSPHATE (GTP)
 8       BINDING PROTEIN-COUPLED RECEPTOR PROTEIN, BG3
11 <130> FILE REFERENCE: 06501-087001
13 <140> CURRENT APPLICATION NUMBER: 09/963,766
14 <141> CURRENT FILING DATE: 2001-09-25
16 <150> PRIOR APPLICATION NUMBER: PCT/JP00/01826
17 <151> PRIOR FILING DATE: 2000-03-24
19 <150> PRIOR APPLICATION NUMBER: JP 11/82641
20 <151> PRIOR FILING DATE: 1999-03-25
22 <160> NUMBER OF SEQ ID NOS: 6
24 <170> SOFTWARE: FastSEQ for Windows Version 4.0
26 <210> SEQ ID NO: 1
27 <211> LENGTH: 21
28 <212> TYPE: DNA
29 <213> ORGANISM: Artificial Sequence
31 <220> FEATURE:
32 <223> OTHER INFORMATION: Artificially synthesized primer sequence
36 <221> NAME/KEY: misc_feature
37 <222> LOCATION: 4
38 <223> OTHER INFORMATION: n = a, g, c, or t
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44 <211> LENGTH: 3117
45 <212> TYPE: DNA
46 <213> ORGANISM: Homo sapiens
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50 gccgtgctgt cctccgtgag caccatccgg aaccagcgct accacatcca cgccaacctg     120
51 tccttcgccg tgctggtggc ccaggtcctg ctgctcatta gtttccgcct cgagccgggc     180
52 acgacccccc gccaagtgat ggccgtgctc ctacactact tcttcctgag tgccttcgca     240
53 tggatgctgg tggaggggct gcacctctac agcatggtga tcaaggtctt tgggtcggag     300
54 gacagcaagc accgttacta ctatgggatg ggatggggtt ttcctcttct gatctgcatc     360
55 atttcactgt catttgccat ggacagttac ggaacaagca acaattgctg gctgtcgttg     420
56 gcgagtggcg ccatctgggc ctttgtagcc cctgccctgt ttgtcatcgt ggtcaacatt     480
57 ggcatcctca tcgctgtgac cagagtcatc tcacagatca gcgccgacaa ctacaagatc     540
58 catggagacc ccagtgcctt caagttgacg gccaaggcag tggccgtgct gctgcccatc     600
59 ctgggtacct cgtgggtctt tggcgtgctt gctgtcaacg gttgtgctgt ggttttccag     660
60 tacatgtttg ccacgctcaa ctccctgcag ggactgttca tattcctctt tcattgtctc     720
61 ctgaattcag aggtgagagc cgccttcaag cacaaaacca aggtctggtc gctcacgagc     780
62 agctccgccc gcacctccaa cgcgaagccc ttccactcgg acctcatgaa tgggacccgg     840
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/963,766

DATE: 02/17/2002
TIME: 16:10:19

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Output Set: N:\CRF3\02172002\I963766.raw

63 ccaggcatgg cctccaccaa gctcagccct tgggacaaga gcagccactc tgcccaccgc 900
64 gtcgacctgt cagccgtgtg agccgggagg ctgccaacca ggccaggctg cgctcagaac 960
65 acacccccc aaacagaatg aaatgcccca cctttgccca tggaccctct ccttgctgct 1020
66 gtctggacat gggtgttgtg gccccgagac agctgtcctc ccctgtgact ctggctgtcg 1080
67 gagcacactg ctcagcccag cagcctgatg cccaggccag cgtgggccct cctgccttgc 1140
68 atccacccgt gggctgagtg acttcctcgg gggattccca ggacacagtg gcctgactgt 1200
69 gatggtgccc ttgagcctcc cttcatcact cagcatcaga cccagcgagg ccaggacact 1260
70 cggggccggt cccgcagcac caggagggga tgttcagcct ctgtgccttg gtggggcttg 1320
71 gggactcagg gccaaagagg tggttcaggt ccccacgcac cctcagtcag gcgcaggcag 1380
72 ctgggggtgt gtggggaaga gcatgcggag tccccagtgt ctgaatccac tgagtggtga 1440
73 gttccccaca gccggcgcta gctggtgtgt gtctctgtag gtggtgccgg cgtgggccaa 1500
74 cctgtgctgt gtcatcagtt gggggccccc gcccaagccg agctcgagcc gtgggcggga 1560
75 gtcgttgact ctccaggtga gggcgacccc tctgccctgt ccttgggggg gtcccctctg 1620
76 ctcacgtgaa gagccgctct gggccttgag gctgcctgat ggtgcctgtg cttgggggag 1680
77 cttctcggcc atccgctgtg agttttgcct ctttggaccc caattcggcc ttaagatgcc 1740
78 ctcctccctc gtgtgccagc ctccttggtt gttcttgggc cacaggagct ggccgtgtcc 1800
79 ccgcagtgcc tggtgtccag gtggaaagtg gagggcattt tccagggcac tgctttcccc 1860
80 agaggcttcc tcatggctca caggcactct acgaagtttc taatgggcag accacgcggc 1920
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82 acctggagag ggagggctgg tgacagccgt gtcttctgtg ttgagggaaa tttatggact 2040
83 cagattcagc cccagaggag atgggataat tgttatggac ccatgtgtgg gcatgatcct 2100
84 gtggaacaca ggtttgggat catagatgtg aattaagaca ccaccgagat acgggctgtg 2160
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86 cctggttttg atactggaaa ctcttccttt aaaactgtga ccatgatttc attcagcccc 2280
87 tccacacccc tatgtctgcc ttgtttcaga gtgagttttc tatggagcct gtggcccttt 2340
88 tgcagcccac ctggtggctt cttaatgtaa ctcttccccc ggtcgcctgg agtggaccac 2400
89 tcatctgcag gcctctcctg catggggagg gtaggcaggg agcagcatgt ctgcaggggt 2460
90 gaacctttgc tcttctgtca ggcgaggccc aggctgcacc agccacctgc cacatggtga 2520
91 cagtgccacg ggccctgcgt atggcccctg caaccgtgct ctggcgggca cacctggctg 2580
92 ctgcaggcca aggccgctgt tcagtgaaga gtcccatgtt tagtatggac taaagtccca 2640
93 tgtttagcca ctgccccagg ctcccgtgac cccagaaacc aggtcacatg gaccacagtg 2700
94 ccagatcctc atcacgccgg tgagcaccta gaagtgagaa cactgtattc ctacaatgta 2760
95 cacttggata tttctcctta tttagtttct agtgaaacaa atcaagtaag gaactatctt 2820
96 tagtttagat ggaattattt gtttttaatt gttgccgtat tcatctatat agctaatatt 2880
97 tcaagataag taatgaacaa aacctgtcta aacctttttgt ttccaatgaa tgaaagtcat 2940
98 gcactttatt tataggctct atgttttggc ttctgcagta cttttattat ctatacataa 3000
99 tttggccaaa aataagaaat tggaaagaat gaaatgttta gtttatagta gaagaaagat 3060
100 gatgacacta agttgtgaaa atatgttgtg atttttatga aataaactca tgtcctg 3117

102 <210> SEQ ID NO: 3
103 <211> LENGTH: 21
104 <212> TYPE: DNA
105 <213> ORGANISM: Artificial Sequence
107 <220> FEATURE:
108 <223> OTHER INFORMATION: Artificially synthesized primer sequence
112 <400> SEQUENCE: 3
113 ccacgccaac ctgtccttcg c 21

115 <210> SEQ ID NO: 4
116 <211> LENGTH: 21
117 <212> TYPE: DNA

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/963,766

DATE: 02/17/2002
TIME: 16:10:19

Input Set : A:\PTO.AMC.TXT
Output Set: N:\CRF3\02172002\I963766.raw

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120 <220> FEATURE:
121 <223> OTHER INFORMATION: Artificially synthesized primer sequence
125 <400> SEQUENCE: 4
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128 <210> SEQ ID NO: 5
129 <211> LENGTH: 5340
130 <212> TYPE: DNA
131 <213> ORGANISM: Homo sapiens
133 <220> FEATURE:
134 <221> NAME/KEY: CDS
135 <222> LOCATION: (517)...(3138)
137 <400> SEQUENCE: 5
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139 cgctccaggg gaaaaccacg cacaaaacct tcttcagaga aaagggaagc tccaaacctg     120
140 actgagacaa acggaggctc ttgaaataaa aagaaaatac cgcaggacaa acagcctccc     180
141 gtccccgggc gcaggtcgcg gtcacagtgg tgacctggga ttgctttccc aggactgcga     240
142 gtcgggtttg ggtttctcct ccctgcattc cacagctgct ctggtcatcg caacgtgttt     300
143 attgatcact gaagaatctc aagttttgag acgaggaaga aacacccatt aggtctccaa     360
144 gacagctgtg tttcacaaac tttagggaga cagaaatttt ctcccctgga acctgtgaaa     420
145 atgtcccttt tccaaggaag tgaaggttaa gaggtcccgt tctcacagac cctcagtaat     480
146 ttcacttggc tccgagcttt gacctccgag agagcc atg gaa aag ctg ctg cgg       534
147                                        Met Glu Lys Leu Leu Arg
148                                         1               5
150 ctg tgc tgc tgg tac tcc tgg ctg ctg cta ttt tat tac aac ttt cag       582
151 Leu Cys Cys Trp Tyr Ser Trp Leu Leu Leu Phe Tyr Tyr Asn Phe Gln
152             10                  15                  20
154 gtg cgt ggc gtc tac tcc aga tcg cag gac cat cca gga ttt cag gtg       630
155 Val Arg Gly Val Tyr Ser Arg Ser Gln Asp His Pro Gly Phe Gln Val
156         25                  30                  35
158 ttg gcg tct gct tcc cat tac tgg cca ctg gag aat gtg gat ggg atc       678
159 Leu Ala Ser Ala Ser His Tyr Trp Pro Leu Glu Asn Val Asp Gly Ile
160     40                  45                  50
162 cat gaa ctt cag gat aca act gga gat att gtg gaa ggg aag gtc aac       726
163 His Glu Leu Gln Asp Thr Thr Gly Asp Ile Val Glu Gly Lys Val Asn
164  55                  60                  65                  70
166 aaa ggc att tac ctg aaa gag gaa aag gga gtc acg ctt ctc tat tac       774
167 Lys Gly Ile Tyr Leu Lys Glu Glu Lys Gly Val Thr Leu Leu Tyr Tyr
168                 75                  80                  85
170 ggc agg tac aac agc tcc tgc atc agc aag cca gag cag tgt ggc cct       822
171 Gly Arg Tyr Asn Ser Ser Cys Ile Ser Lys Pro Glu Gln Cys Gly Pro
172             90                  95                  100
174 gaa ggg gtc acg ttt tct ttt ttc tgg aag aca caa gga gaa cag tct       870
175 Glu Gly Val Thr Phe Ser Phe Phe Trp Lys Thr Gln Gly Glu Gln Ser
176         105                 110                 115
178 aga cca atc cct tct gcg tat ggg gga cag gtc atc tcc aat ggg ttc       918
179 Arg Pro Ile Pro Ser Ala Tyr Gly Gly Gln Val Ile Ser Asn Gly Phe
180     120                 125                 130
182 aaa gtc tgc tcc agc ggt ggc aga ggc tct gtg gag ctg tac acg cgg       966
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/963,766

DATE: 02/17/2002
TIME: 16:10:19

Input Set : A:\PTO.AMC.TXT
Output Set: N:\CRF3\02172002\I963766.raw

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183 Lys Val Cys Ser Ser Gly Gly Arg Gly Ser Val Glu Leu Tyr Thr Arg
184 135                 140                 145                 150
186 gac aat tcc atg aca tgg gag gcc tcc ttc agc ccc cca ggc ccc tat      1014
187 Asp Asn Ser Met Thr Trp Glu Ala Ser Phe Ser Pro Pro Gly Pro Tyr
188                 155                 160                 165
190 tgg act cat gtc cta ttt aca tgg aaa tcc aag gag ggc ctg aaa gtc      1062
191 Trp Thr His Val Leu Phe Thr Trp Lys Ser Lys Glu Gly Leu Lys Val
192             170                 175                 180
194 tac gtc aac ggg acc ctg agc acc tct gat ccg agt gga aaa gtg tct      1110
195 Tyr Val Asn Gly Thr Leu Ser Thr Ser Asp Pro Ser Gly Lys Val Ser
196         185                 190                 195
198 cgt gac tat gga gag tcc aac gtc aac ctc gtg ata ggg tct gag cag      1158
199 Arg Asp Tyr Gly Glu Ser Asn Val Asn Leu Val Ile Gly Ser Glu Gln
200     200                 205                 210
202 gac cag gcc aag tgt tat gag aac ggt gct ttc gat gag ttc atc atc      1206
203 Asp Gln Ala Lys Cys Tyr Glu Asn Gly Ala Phe Asp Glu Phe Ile Ile
204 215                 220                 225                 230
206 tgg gag cgg gct ctg act ccg gat gag atc gcc atg tac ttc act gct      1254
207 Trp Glu Arg Ala Leu Thr Pro Asp Glu Ile Ala Met Tyr Phe Thr Ala
208                 235                 240                 245
210 gcc att gga aag cat gct tta ttg tct tca acg ctg cca agc ctc ttc      1302
211 Ala Ile Gly Lys His Ala Leu Leu Ser Ser Thr Leu Pro Ser Leu Phe
212             250                 255                 260
214 atg aca tcc aca gca agc ccc gtg atg ccc aca gat gcc tac cat ccc      1350
215 Met Thr Ser Thr Ala Ser Pro Val Met Pro Thr Asp Ala Tyr His Pro
216         265                 270                 275
218 atc ata acc aac ctg aca gaa gag aga aaa acc ttc caa agt ccc gga      1398
219 Ile Ile Thr Asn Leu Thr Glu Glu Arg Lys Thr Phe Gln Ser Pro Gly
220     280                 285                 290
222 gtg ata ctg agt tac ctc caa aat gta tcc ctc agc tta ccc agt aag      1446
223 Val Ile Leu Ser Tyr Leu Gln Asn Val Ser Leu Ser Leu Pro Ser Lys
224 295                 300                 305                 310
226 tcc ctc tcg gag cag aca gcc ttg aat ctc acc aag acc ttc tta aaa      1494
227 Ser Leu Ser Glu Gln Thr Ala Leu Asn Leu Thr Lys Thr Phe Leu Lys
228                 315                 320                 325
230 gcc gtg gga gag atc ctt cta ctg cct ggt tgg att gct ctg tca gag      1542
231 Ala Val Gly Glu Ile Leu Leu Leu Pro Gly Trp Ile Ala Leu Ser Glu
232             330                 335                 340
234 gac agc gcc gtg gta ctg agt ctc atc gac act att gac acc gtc atg      1590
235 Asp Ser Ala Val Val Leu Ser Leu Ile Asp Thr Ile Asp Thr Val Met
236         345                 350                 355
238 ggc cat gta tcc tcc aac ctg cac ggc agc acg ccc cag gtc acc gtg      1638
239 Gly His Val Ser Ser Asn Leu His Gly Ser Thr Pro Gln Val Thr Val
240     360                 365                 370
242 gag ggc tcc tct gcc atg gca gag ttt tcc gtg gcc aaa atc ctg ccc      1686
243 Glu Gly Ser Ser Ala Met Ala Glu Phe Ser Val Ala Lys Ile Leu Pro
244 375                 380                 385                 390
246 aag acc gtg aat tcc tcc cat tac cgc ttc ccg gcc cac ggg cag agc      1734
247 Lys Thr Val Asn Ser Ser His Tyr Arg Phe Pro Ala His Gly Gln Ser
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RAW SEQUENCE LISTING DATE: 02/17/2002
PATENT APPLICATION: US/09/963,766 TIME: 16:10:19

Input Set : A:\PTO.AMC.TXT
Output Set: N:\CRF3\02172002\I963766.raw

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250 ttc atc cag atc ccc cac gag gcc ttc cac agg cac gcc tgg agc acc     1782
251 Phe Ile Gln Ile Pro His Glu Ala Phe His Arg His Ala Trp Ser Thr
252             410                 415                 420
254 gtc gtg ggt ctg ctg tac cac agc atg cac tac tac ctg aac aac atc     1830
255 Val Val Gly Leu Leu Tyr His Ser Met His Tyr Tyr Leu Asn Asn Ile
256         425                 430                 435
258 tgg ccc gcc cac acc aag atc gcg gag gcc atg cat cac cag gac tgc     1878
259 Trp Pro Ala His Thr Lys Ile Ala Glu Ala Met His His Gln Asp Cys
260     440                 445                 450
262 ctg ctg ttc gcc acc agc cac ctg att tcc ctg gag gtg tcc cca cca     1926
263 Leu Leu Phe Ala Thr Ser His Leu Ile Ser Leu Glu Val Ser Pro Pro
264 455                 460                 465                 470
266 ccc acc ctg tct cag aac ctg tcg ggc tct cca ctc att acg gtc cac     1974
267 Pro Thr Leu Ser Gln Asn Leu Ser Gly Ser Pro Leu Ile Thr Val His
268                 475                 480                 485
270 ctc aag cac aga ttg aca cgt aag cag cac agt gag gcc acc aac agc     2022
271 Leu Lys His Arg Leu Thr Arg Lys Gln His Ser Glu Ala Thr Asn Ser
272             490                 495                 500
274 agc aac cga gtc ttc gtg tac tgc gcc ttc ctg gac ttc agc tcc gga     2070
275 Ser Asn Arg Val Phe Val Tyr Cys Ala Phe Leu Asp Phe Ser Ser Gly
276         505                 510                 515
278 gaa ggg gtc tgg tcg aac cac ggc tgt gcg ctc acg aga gga aac ctc     2118
279 Glu Gly Val Trp Ser Asn His Gly Cys Ala Leu Thr Arg Gly Asn Leu
280     520                 525                 530
282 acc tac tcc gtc tgc cgc tgc act cac ctc acc aac ttt gcc atc ctc     2166
283 Thr Tyr Ser Val Cys Arg Cys Thr His Leu Thr Asn Phe Ala Ile Leu
284 535                 540                 545                 550
286 atg cag gtg gtc ccg ctg gag ctt gca cgc gga cac cag gtg gcg ctg     2214
287 Met Gln Val Val Pro Leu Glu Leu Ala Arg Gly His Gln Val Ala Leu
288                 555                 560                 565
290 tcg tct atc agc tat gtg ggc tgc tcc ctc tcc gtg ctc tgc ctg gtg     2262
291 Ser Ser Ile Ser Tyr Val Gly Cys Ser Leu Ser Val Leu Cys Leu Val
292             570                 575                 580
294 gcc acg ctg gtc acc ttc gcc gtg ctg tcc tcc gtg agc acc atc cgg     2310
295 Ala Thr Leu Val Thr Phe Ala Val Leu Ser Ser Val Ser Thr Ile Arg
296         585                 590                 595
298 aac cag cgc tac cac atc cac gcc aac ctg tcc ttc gcc gtg ctg gtg     2358
299 Asn Gln Arg Tyr His Ile His Ala Asn Leu Ser Phe Ala Val Leu Val
300     600                 605                 610
302 gcc cag gtc ctg ctg ctc att agt ttc cgc ctc gag ccg ggc acg acc     2406
303 Ala Gln Val Leu Leu Leu Ile Ser Phe Arg Leu Glu Pro Gly Thr Thr
304 615                 620                 625                 630
306 ccc tgc caa gtg atg gcc gtg ctc cta cac tac ttc ttc ctg agt gcc     2454
307 Pro Cys Gln Val Met Ala Val Leu Leu His Tyr Phe Phe Leu Ser Ala
308                 635                 640                 645
310 ttc gca tgg atg ctg gtg gag ggg ctg cac ctc tac agc atg gtg atc     2502
311 Phe Ala Trp Met Leu Val Glu Gly Leu His Leu Tyr Ser Met Val Ile
312             650                 655                 660
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VERIFICATION SUMMARY DATE: 02/17/2002
PATENT APPLICATION: US/09/963,766 TIME: 16:10:21

Input Set : A:\PTO.AMC.TXT
Output Set: N:\CRF3\02172002\I963766.raw

L:41 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1

OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/963,766

DATE: 02/08/2002
TIME: 11:39:39

Input Set : A:\06501-087001.TXT
Output Set: N:\CRF3\02082002\I963766.raw

Does N Compl
ents Narrow

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 4 <110> APPLICANT: Nakamura, Takao
 5       Ohta, Masataka
 7 <120> TITLE OF INVENTION: NOVEL GUANOSINE TRIPHOSPHATE (GTP)
 8       BINDING PROTEIN-COUPLED RECEPTOR PROTEIN, BG3
11 <130> FILE REFERENCE: 06501-087001
13 <140> CURRENT APPLICATION NUMBER: 09/963,766
14 <141> CURRENT FILING DATE: 2001-09-25
16 <150> PRIOR APPLICATION NUMBER: PCT/JP00/01826
17 <151> PRIOR FILING DATE: 2000-03-24
19 <150> PRIOR APPLICATION NUMBER: JP 11/82641
20 <151> PRIOR FILING DATE: 1999-03-25
22 <160> NUMBER OF SEQ ID NOS: 6
24 <170> SOFTWARE: FastSEQ for Windows Version 4.0
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ERRORED SEQUENCES

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409 <211> LENGTH: 874
410 <212> TYPE: PRT
411 <213> ORGANISM: Homo sapiens
413 <400> SEQUENCE: 6
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415  1               5                  10                  15
416 Phe Tyr Tyr Asn Phe Gln Val Arg Gly Val Tyr Ser Arg Ser Gln Asp
417             20                  25                  30
418 His Pro Gly Phe Gln Val Leu Ala Ser Ala Ser His Tyr Trp Pro Leu
419         35                  40                  45
420 Glu Asn Val Asp Gly Ile His Glu Leu Gln Asp Thr Thr Gly Asp Ile
421     50                  55                  60
422 Val Glu Gly Lys Val Asn Lys Gly Ile Tyr Leu Lys Glu Glu Lys Gly
423 65                  70                  75                  80
424 Val Thr Leu Leu Tyr Tyr Gly Arg Tyr Asn Ser Ser Cys Ile Ser Lys
425                 85                  90                  95
426 Pro Glu Gln Cys Gly Pro Glu Gly Val Thr Phe Ser Phe Phe Trp Lys
427             100                 105                 110
428 Thr Gln Gly Glu Gln Ser Arg Pro Ile Pro Ser Ala Tyr Gly Gly Gln
429         115                 120                 125
430 Val Ile Ser Asn Gly Phe Lys Val Cys Ser Ser Gly Gly Arg Gly Ser
431     130                 135                 140
432 Val Glu Leu Tyr Thr Arg Asp Asn Ser Met Thr Trp Glu Ala Ser Phe
433 145                 150                 155                 160
434 Ser Pro Pro Gly Pro Tyr Trp Thr His Val Leu Phe Thr Trp Lys Ser
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/963,766

DATE: 02/08/2002
TIME: 11:39:39

Input Set : A:\06501-087001.TXT
Output Set: N:\CRF3\02082002\I963766.raw

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435                 165                 170                 175
436 Lys Glu Gly Leu Lys Val Tyr Val Asn Gly Thr Leu Ser Thr Ser Asp
437             180                 185                 190
438 Pro Ser Gly Lys Val Ser Arg Asp Tyr Gly Glu Ser Asn Val Asn Leu
439         195                 200                 205
440 Val Ile Gly Ser Glu Gln Asp Gln Ala Lys Cys Tyr Glu Asn Gly Ala
441     210                 215                 220
442 Phe Asp Glu Phe Ile Ile Trp Glu Arg Ala Leu Thr Pro Asp Glu Ile
443 225                 230                 235                 240
444 Ala Met Tyr Phe Thr Ala Ala Ile Gly Lys His Ala Leu Leu Ser Ser
445                 245                 250                 255
446 Thr Leu Pro Ser Leu Phe Met Thr Ser Thr Ala Ser Pro Val Met Pro
447             260                 265                 270
448 Thr Asp Ala Tyr His Pro Ile Ile Thr Asn Leu Thr Glu Glu Arg Lys
449         275                 280                 285
450 Thr Phe Gln Ser Pro Gly Val Ile Leu Ser Tyr Leu Gln Asn Val Ser
451     290                 295                 300
452 Leu Ser Leu Pro Ser Lys Ser Leu Ser Glu Gln Thr Ala Leu Asn Leu
453 305                 310                 315                 320
454 Thr Lys Thr Phe Leu Lys Ala Val Gly Glu Ile Leu Leu Leu Pro Gly
455                 325                 330                 335
456 Trp Ile Ala Leu Ser Glu Asp Ser Ala Val Val Leu Ser Leu Ile Asp
457             340                 345                 350
458 Thr Ile Asp Thr Val Met Gly His Val Ser Ser Asn Leu His Gly Ser
459         355                 360                 365
460 Thr Pro Gln Val Thr Val Glu Gly Ser Ser Ala Met Ala Glu Phe Ser
461     370                 375                 380
462 Val Ala Lys Ile Leu Pro Lys Thr Val Asn Ser Ser His Tyr Arg Phe
463 385                 390                 395                 400
464 Pro Ala His Gly Gln Ser Phe Ile Gln Ile Pro His Glu Ala Phe His
465                 405                 410                 415
466 Arg His Ala Trp Ser Thr Val Val Gly Leu Leu Tyr His Ser Met His
467             420                 425                 430
468 Tyr Tyr Leu Asn Asn Ile Trp Pro Ala His Thr Lys Ile Ala Glu Ala
469         435                 440                 445
470 Met His His Gln Asp Cys Leu Leu Phe Ala Thr Ser His Leu Ile Ser
471     450                 455                 460
472 Leu Glu Val Ser Pro Pro Pro Thr Leu Ser Gln Asn Leu Ser Gly Ser
473 465                 470                 475                 480
474 Pro Leu Ile Thr Val His Leu Lys His Arg Leu Thr Arg Lys Gln His
475                 485                 490                 495
476 Ser Glu Ala Thr Asn Ser Ser Asn Arg Val Phe Val Tyr Cys Ala Phe
477             500                 505                 510
478 Leu Asp Phe Ser Ser Gly Glu Gly Val Trp Ser Asn His Gly Cys Ala
479         515                 520                 525
480 Leu Thr Arg Gly Asn Leu Thr Tyr Ser Val Cys Arg Cys Thr His Leu
481     530                 535                 540
482 Thr Asn Phe Ala Ile Leu Met Gln Val Val Pro Leu Glu Leu Ala Arg
483 545                 550                 555                 560
```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/963,766

DATE: 02/08/2002
TIME: 11:39:39

Input Set : A:\06501-087001.TXT
Output Set: N:\CRF3\02082002\I963766.raw

```
484 Gly His Gln Val Ala Leu Ser Ser Ile Ser Tyr Val Gly Cys Ser Leu
485                 565                 570                 575
486 Ser Val Leu Cys Leu Val Ala Thr Leu Val Thr Phe Ala Val Leu Ser
487             580                 585                 590
488 Ser Val Ser Thr Ile Arg Asn Gln Arg Tyr His Ile His Ala Asn Leu
489         595                 600                 605
490 Ser Phe Ala Val Leu Val Ala Gln Val Leu Leu Leu Ile Ser Phe Arg
491     610                 615                 620
492 Leu Glu Pro Gly Thr Thr Pro Cys Gln Val Met Ala Val Leu Leu His
493 625                 630                 635                 640
494 Tyr Phe Phe Leu Ser Ala Phe Ala Trp Met Leu Val Glu Gly Leu His
495                 645                 650                 655
496 Leu Tyr Ser Met Val Ile Lys Val Phe Gly Ser Glu Asp Ser Lys His
497             660                 665                 670
498 Arg Tyr Tyr Tyr Gly Met Gly Trp Gly Phe Pro Leu Leu Ile Cys Ile
499         675                 680                 685
500 Ile Ser Leu Ser Phe Ala Met Asp Ser Tyr Gly Thr Ser Asn Asn Cys
501     690                 695                 700
502 Trp Leu Ser Leu Ala Ser Gly Ala Ile Trp Ala Phe Val Ala Pro Ala
503 705                 710                 715                 720
504 Leu Phe Val Ile Val Val Asn Ile Gly Ile Leu Ile Ala Val Thr Arg
505                 725                 730                 735
506 Val Ile Ser Gln Ile Ser Ala Asp Asn Tyr Lys Ile His Gly Asp Pro
507             740                 745                 750
508 Ser Ala Phe Lys Leu Thr Ala Lys Ala Val Ala Val Leu Leu Pro Ile
509         755                 760                 765
510 Leu Gly Thr Ser Trp Val Phe Gly Val Leu Ala Val Asn Gly Cys Ala
511     770                 775                 780
512 Val Val Phe Gln Tyr Met Phe Ala Thr Leu Asn Ser Leu Gln Gly Leu
513 785                 790                 795                 800
514 Phe Ile Phe Leu Phe His Cys Leu Leu Asn Ser Glu Val Arg Ala Ala
515                 805                 810                 815
516 Phe Lys His Lys Thr Lys Val Trp Ser Leu Thr Ser Ser Ser Ala Arg
517             820                 825                 830
518 Thr Ser Asn Ala Lys Pro Phe His Ser Asp Leu Met Asn Gly Thr Arg
519         835                 840                 845
520 Pro Gly Met Ala Ser Thr Lys Leu Ser Pro Trp Asp Lys Ser Ser His
521     850                 855                 860
522 Ser Ala His Arg Val Asp Leu Ser Ala Val
523 865                 870
E--> 527 7
```

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/963,766

DATE: 02/08/2002
TIME: 11:39:40

Input Set : A:\06501-087001.TXT
Output Set: N:\CRF3\02082002\I963766.raw

L:41 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:527 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:6